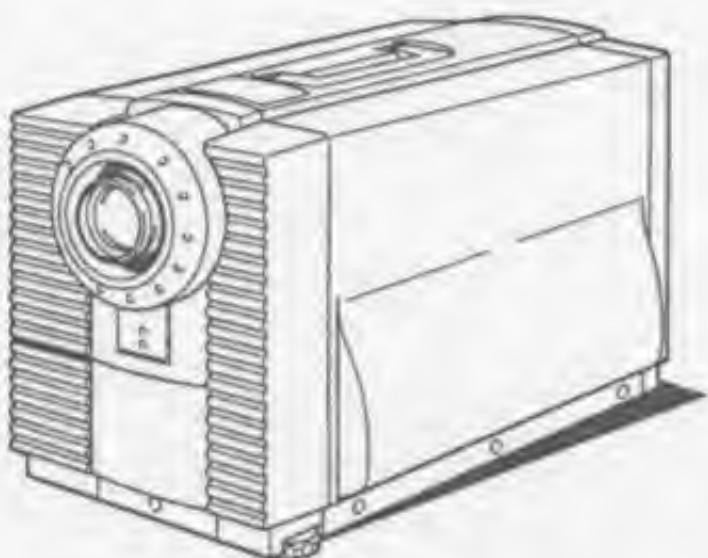




LC DATA-GRADE PROJECTOR

MODEL **LC-6200U**
LC-6210U



OWNER'S INSTRUCTION MANUAL

INFORMATION TO THE USER

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

SAFETY PRECAUTIONS

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

The LC Data-Grade projector has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature.

Intense light source. Do not stare directly into the projection lens as possible eye damage could result. Be especially careful that children do not stare directly into the beam.

If the LC Data-Grade projector will not be used for an extended time, unplug the LC Data-Grade projector from the power outlet.

READ AND KEEP THIS OWNER'S MANUAL FOR LATER USE.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.



THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

IMPORTANT:

For your protection in the event of theft or loss of this LC Data-Grade projector, please record the Model Number and Serial Number located on the rear of unit and retain this information. Refer to these numbers whenever you call upon your authorized dealer regarding this product.

Do not discard shipping carton and packing materials.
These items may be needed for storage or future servicing.

Model No: LC-6200U/LC-6210U

Serial No: _____

IMPORTANT SAFETY INSTRUCTIONS

All the safety and operating instructions should be read before the product is operated.

Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

Do not use attachments not recommended by the manufacturer as they may cause hazards.

Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or adult, and serious damage to the projector. Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool or the like.

Slots and openings in the cabinet and the back or bottom are provided for ventilation, to insure reliable operation of the equipment and to protect it from overheating.

These openings should never be covered with cloth or other material, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.

This projector should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

This projector should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized dealer or local power company.

Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord will be abused by persons walking on it.

Never push objects of any kind into this projector through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the projector.

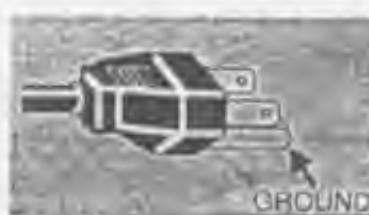
Do not attempt to service this projector yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power cord or plug is damaged or frayed.
- b. If liquid has been spilled into the projector.
- c. If the projector has been exposed to rain or water.
- d. If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
- e. If the projector has been dropped or the cabinet has been damaged.
- f. When the projector exhibits a distinct change in performance--this indicates a need for service.

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.



This projector is equipped with a grounding type AC line plug. Should you be unable to insert the plug into the outlet, contact your electrician. Do not defeat the safety purpose of this grounding type plug.

Follow all warnings and instructions marked on the projector.

For added protection for the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and powerline surges.



An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

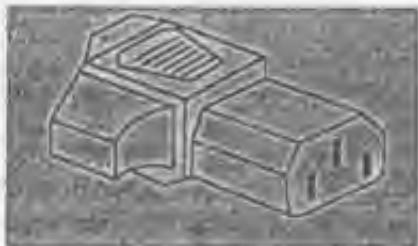
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POWER REQUIREMENTS

Your projector uses nominal input voltages of 100-120 VAC or 200-240 VAC. The projector automatically selects the correct input voltage. The projector is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if you are not sure what type of power is supplied to your building.

Projector side (Female)

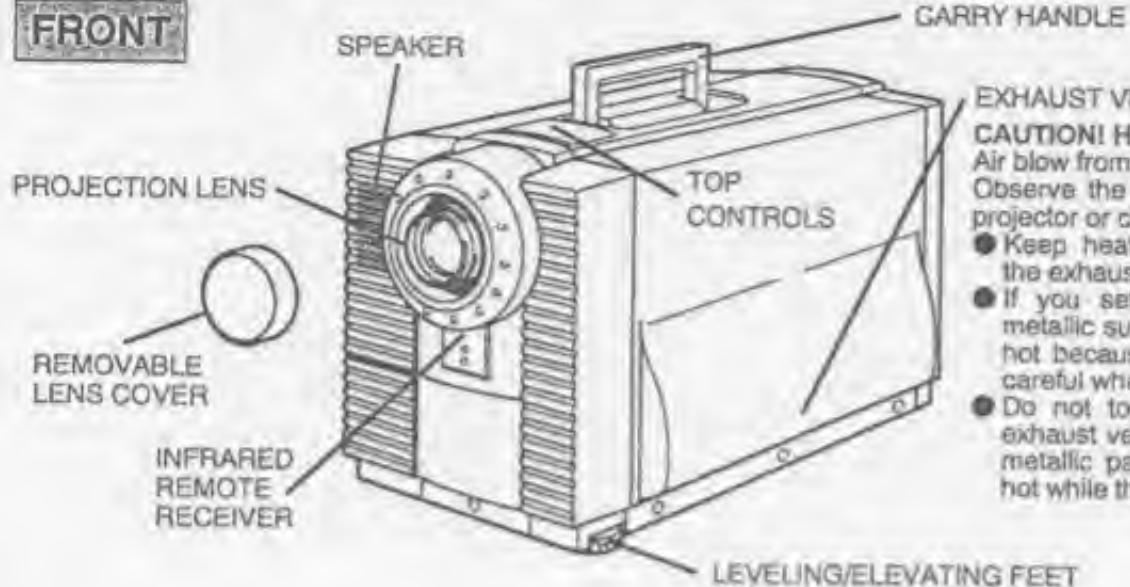


AC outlet side (Male)



DESCRIPTION

FRONT



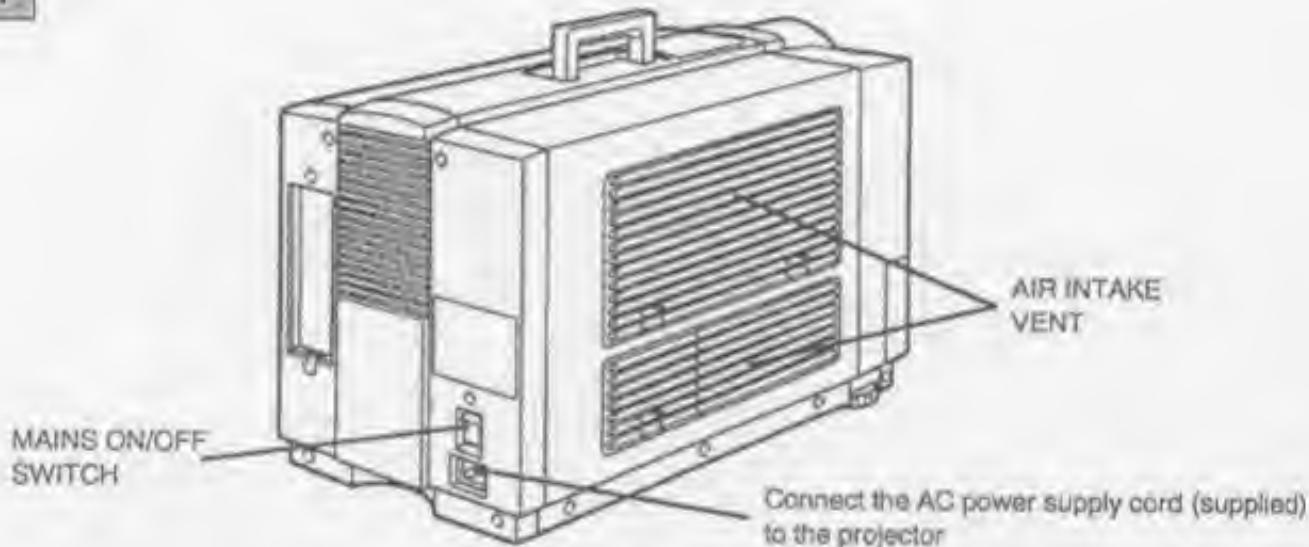
EXHAUST VENT

CAUTION! HOT AIR!

Air blow from the exhaust vent is hot. Observe the following when handling your projector or choosing a location to install it.

- Keep heat-sensitive objects away from the exhaust port.
- If you set the projector on top of a metallic surface, the surface will become hot because of the hot air exhaust. Be careful when handling.
- Do not touch the cabinet near to the exhaust vent, and especially screws and metallic parts. These parts will become hot while the projector is used.

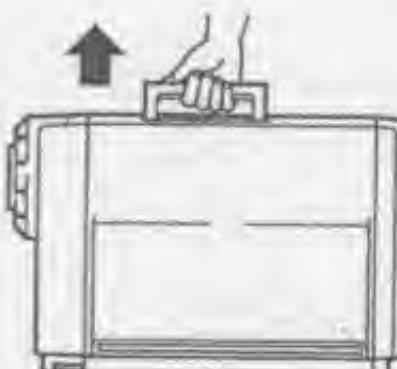
REAR



MOVING THE PROJECTOR

Use the carry handle when moving projector.

Replace the lens cover when moving the projector to prevent damage to the lens.



CONNECTING THE PROJECTOR

Your projector is equipped with various audio/video inputs and outputs including Computer DB25-pin terminals, Computer Separate Input (BNC) and S-VHS video input.

COMPUTER MODE

This projector is compatible with many different types of personal computers:

Using the VGA Y cable provided, it can be connected directly to VGA, PC-9821 desktop type (640 × 480), FM-TOWNS, VERSA, MBC-P100J, J-3100VS, T-4500C, GENOA and VESA. Using the MAC II Y cable provided, it can be connected directly to MAC LC and MAC II.

Using the special cable (not provided), it connects to APPLE II e, CGA, HGC, EGA, MAC SE, AT&T, PC-9801, PC-9821 and AX286/386. In this case, consult your authorized dealer or service station.

SVGA signal can be projected as compressed mode.

CONNECTING TO THE COMPUTER INPUT/OUTPUT DB25-PIN TERMINAL

Personal computers can be connected to the DB25-pin terminal on the projector.

- Connect the computer to this terminal using the adapter cable (two type of adapter Y cables are provided).

WARNING: For projectors, adapter Y cable provided is designed to reduce RFI (Radio Frequency Interference) emissions. For regulatory compliance reasons, this cable must be used and must not be replaced by any other cable.

Specification of DB25-pin terminal

Pin No. Signal

Pin No.	Signal	Pin No.	Signal
1.	Red input (Analog)	14.	Ground
2.	Green input (Analog)	15.	Ground
3.	Blue input (Analog)	16.	Ground
4.	Red output (Analog)	17.	Red input (TTL)
5.	Green output (Analog)	18.	Green input (TTL)
6.	Blue output (Analog)	19.	Blue input (TTL)
7.	ID 0	20.	r input (TTL)
8.	ID 1	21.	g input (TTL), CGA Intensity
9.	ID 2	22.	b input (TTL)
10.	Ground	23.	NC
11.	Ground	24.	Ground
12.	V. Sync	25.	Ground
13.	H. Sync		



Personal computers can be connected to the computer input (Red, Green, Blue, Horiz. Sync. and Vert. Sync.) on the projector.

- Connect the computer to these jacks.

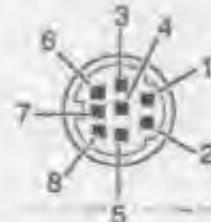
CONNECTING TO THE COMPUTER AUDIO INPUT JACKS

- Connect audio outputs from your computer to these jacks.
- If the audio input of the audio equipment is stereo, be sure to connect the right and left channels to the respective right and left jacks.
- If the audio input of the audio equipment is monaural, connect it to the left jack.

CONNECTING TO THE DIN8 (SERIAL PORT) CONNECTOR

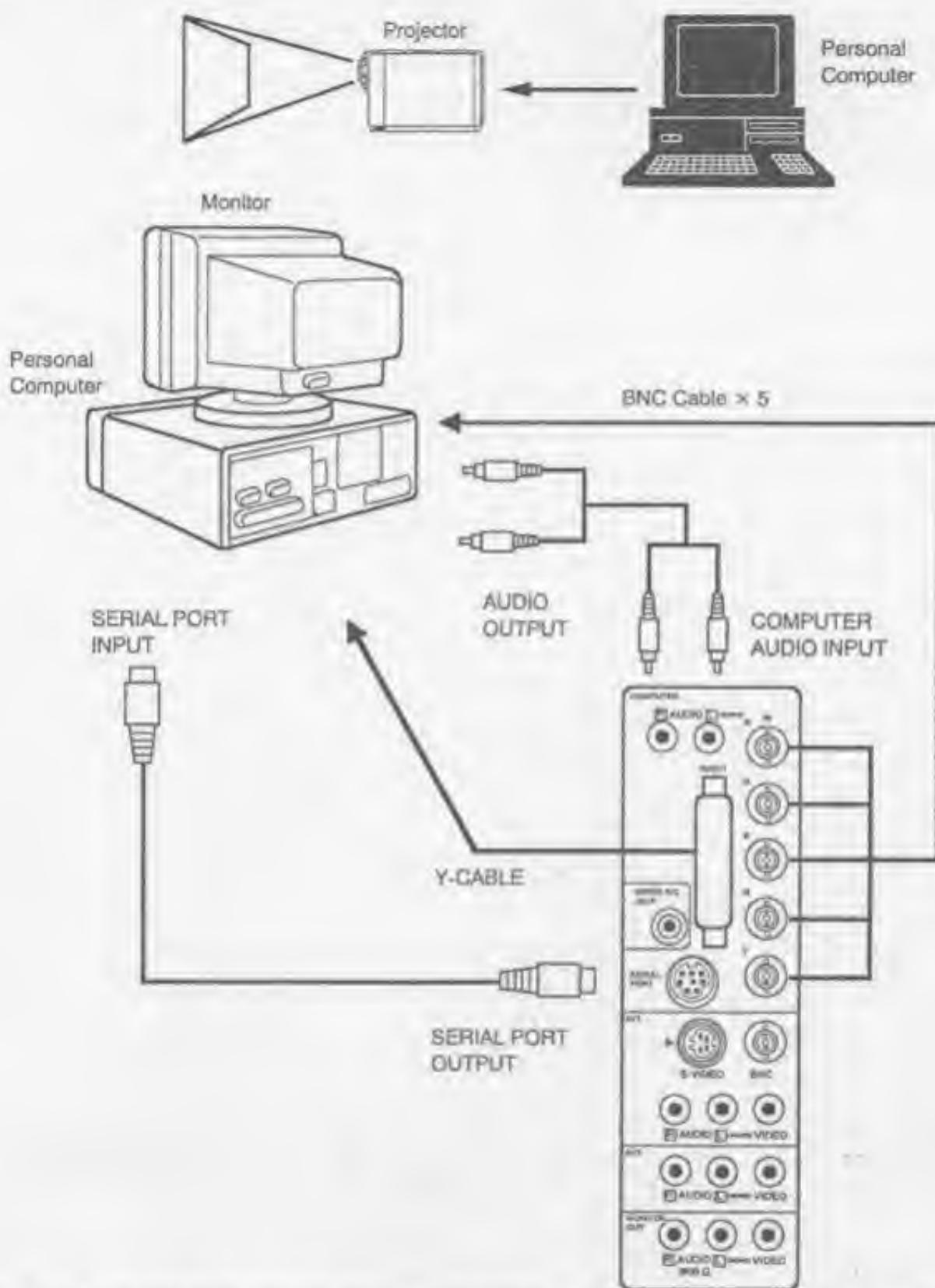
- If you control the projector by computer, you must connect a cable from your computer to this connector.

■ SERIAL PORT



1	RxD
2	ADB
3	MUX232
4	GND
5	MUXTTL
6	TxD
7	—
8	—

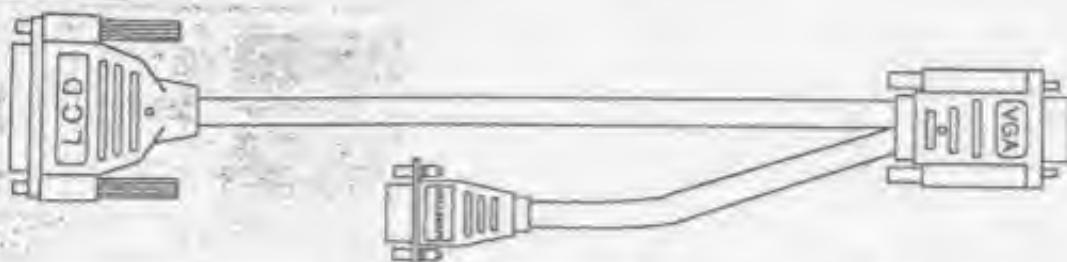
CONNECTING THE PROJECTOR TO A COMPUTER



NOTE: The hook up should be done as per the above illustration. After hook up, turn on the personal computer and monitor and the POWER(LAMP) ON/OFF button to light the projection lamp. Otherwise, the monitor's image does not appear.

ACCESSORIES ADAPTER CABLE SPECIFICATIONS

(A) VGA Y CABLE



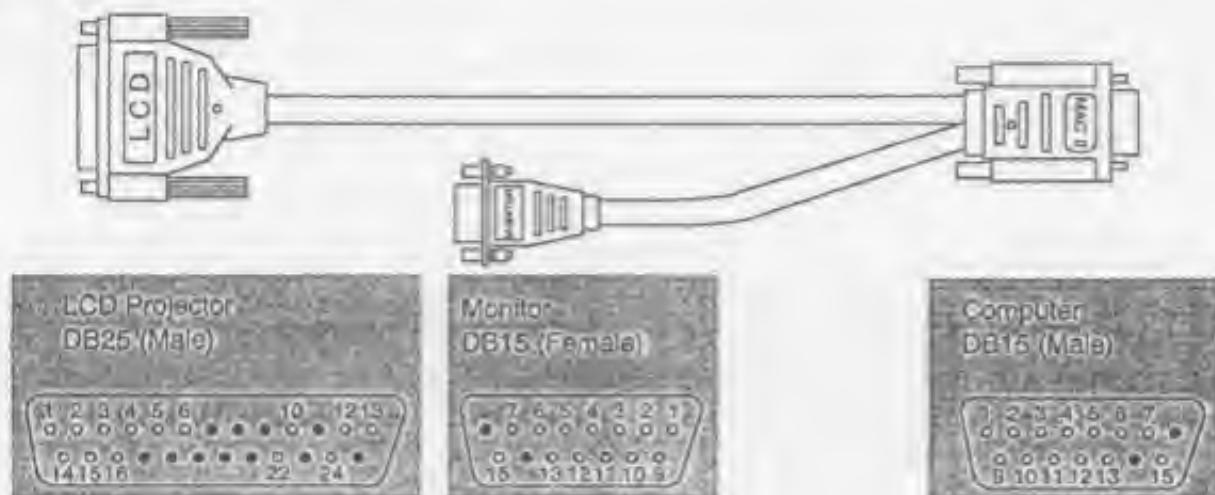
Pin No./Signal
1 R input
2 G input
3 B input
4 R output
5 G output
6 B output
7 _____
8 _____
9 _____
10 Ground (H, V)
11 Ground (H, V)
12 V-sync.
13 H-sync.
14 R return
15 G return
16 B return
17 _____
18 _____
19 _____
20 _____
21 _____
22 _____
23 _____
24 Ground
25 Ground

Pin No./Signal
1 R input
2 G input
3 B input
4 Sense 2
5 Not used
6 R Return
7 G Return
8 B Return
9 _____
10 Ground (H, V)
11 Sense 0
12 Sense 1
13 H-sync.
14 V-sync.
15 _____

Pin No./Signal
1 R output
2 G output
3 B output
4 Sense 2
5 Not used
6 Not used
7 Return (R, G, B)
8 _____
9 _____
10 Ground (H, V)
11 Sense 0
12 Sense 1
13 H-sync.
14 V-sync.
15 _____

NOTE: Some computers scan the video output to see if a proper monitor is connected. In certain instances they will not provide an image to the projector if the monitor is not connected. In these circumstances, you will have to connect a monitor or a "monitor simulation" terminator plug into the monitor connector on the "Y" cable (the HD-DB15 shown above). The computer will then provide a proper image to the projector. A simulation terminator for the VGA monitor connector is included with the projector.

(B) MAC II Y CABLE



Pin No./Signal
1 R Input
2 G Input
3 B Input
4 R Output
5 G Output
6 B Output
7
8
9
10 Ground (Comp. & V)
11
12 V-sync.
13 H-sync.
14 R Return
15 G Return
16 B Return
17
18
19
20
21
22 Not used
23
24 Ground (Comp. & V)
25

Pin No./Signal
1 R Return
2 R Input
3 Comp.-Sync.
4 Sense 0
5 G Input
6 G Return
7 Sense 1
8
9 B Input
10 Sense 2
11 Ground (Comp. & V)
12 V-sync.
13 B Return
14
15 H-sync.

Pin No./Signal
1 R Return
2 R Output
3 Comp.-Sync.
4 Sense 0
5 G Output
6 G Return
7 Sense 1
8
9 B Output
10 Sense 2
11 Ground (Comp. & V)
12 V-sync.
13 Not used
14
15 H-sync.

NOTE: Some Macintosh computers scan the video output to see if a proper monitor is connected. In certain instances they will not provide an image to the projector if the monitor is not connected. In these circumstances, you will have to connect a monitor or a "monitor simulation" terminator plug into the monitor connector on the "Y" cable (the DB15 shown above). The computer will then provide a proper image to the projector. A simulation terminator for the MAC monitor connector is included with the projector.

AV MODE (AV1 or AV2)

CONNECTING TO THE AV1 INPUT JACKS

Connect to the video and audio outputs of a VCR, video disc player, video camera, satellite TV tuner or other AV equipment.

- Connect video/audio outputs from external sources to these input jacks.
- If the audio signal from the AV equipment is stereo, be sure to connect the right and left channels to the respective right and left audio input jacks.
- If the external audio signal is monaural, connect it to the left jack.
- Do not connect the video sources to the AV1 (RCA) together with the BNC jack. Use one video input only for AV1.

S-VHS FORMAT VCR CONNECTION

The AV1 input includes an extra video input jack marked S-VIDEO to allow connection to an S-VHS format VCR that has separate Y/C video signals. The S-VIDEO jack has priority over the VIDEO (RCA or BNC) jack.

CONNECTING TO THE AV2 INPUT JACKS

Connect to the video and audio outputs of a VCR, video disc player, video camera, satellite TV tuner or other AV equipment.

- Connect video/audio outputs from external sources to these input jacks.
- If the audio signal from the AV equipment is stereo, be sure to connect the right and left channels to the respective right and left audio input jacks.
- If the external audio signal is monaural, connect it to the left jack.

CONNECTING TO THE VIDEO MONITOR OUTPUT JACK

This jack will contain the video information of the selected program source being viewed on the screen (AV1 or AV2). If you have selected program source AV1 the video signal connected to the AV1 jack will be available at the video monitor output jack. If you select program source COMPUTER, there is no signal.

Connect video input from AV equipment to this jack by RCA cable.

Whenever the S-VIDEO signal source is viewed on the screen, the video signal available at the MONITOR OUTPUT jack will be in black and white (monochrome).

CONNECTING TO THE AUDIO MONITOR OUTPUT JACKS

These jacks will contain the audio information of the selected program source being viewed on the screen (AV1, AV2 or COMPUTER). If you have selected program source AV1 the audio signal connected to the AV1 jack will be available at the audio monitor output jack.

The audio monitor output can be selected 2 kind of the output. One is "NORMAL" and the other is "600 Ω ".

The specifications are as follows.

"NORMAL" position Output impedance 47 k Ω , stereo (R and L), 440 mVrms.

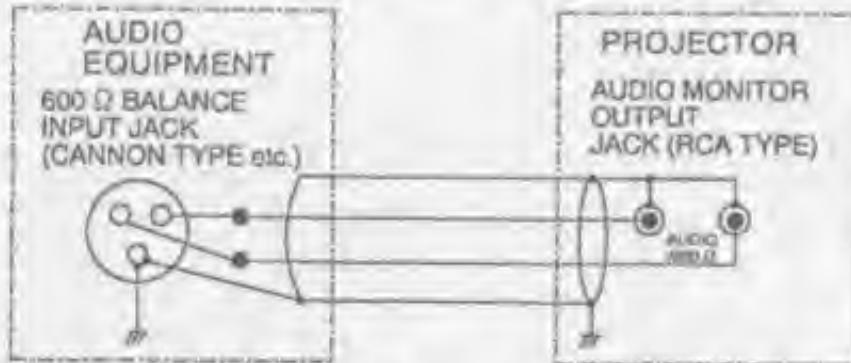
"600 Ω " position Output impedance 600 Ω , balance (monaural), 774.6 mVrms.

When the audio equipment with RCA type input jack is used, to select the "NORMAL" position by other function setting.

When the audio equipment with 600 Ω balance (monaural) input is used, to select the "600 Ω " position. (See "OTHER FUNCTION SETTING" section on page 20).

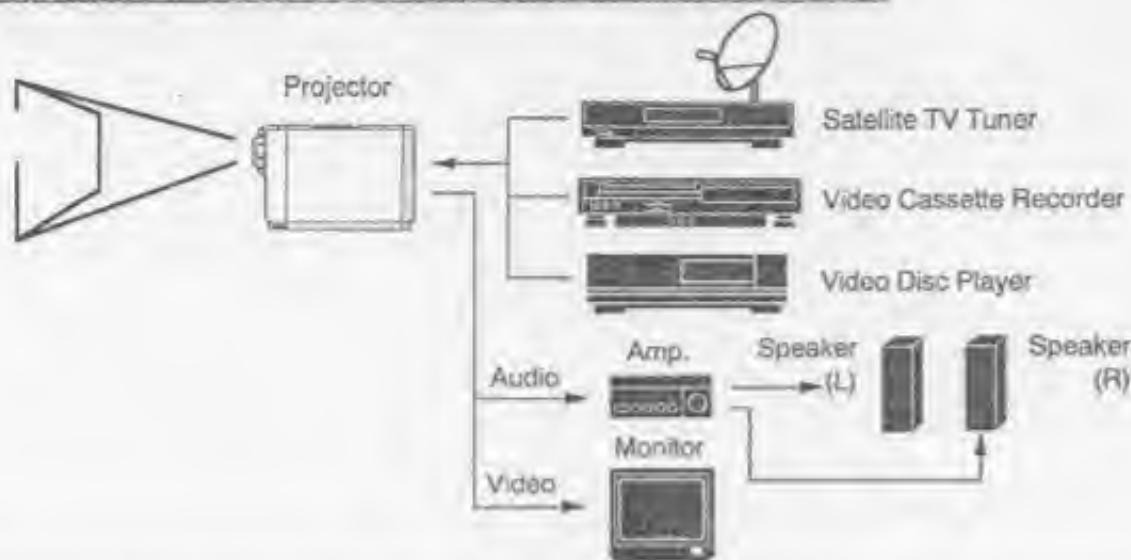
When the audio equipment with stereo type input jack (RCA type) is used, be sure to connect the right and left channels to the respective right and left jacks by RCA cable. When the audio equipment with monaural type input jack (RCA type) is used, to connect the left jack by RCA cable.

When the audio equipment with 600 Ω balance (monaural) input jack is used, connect the projector and audio equipment as follows.

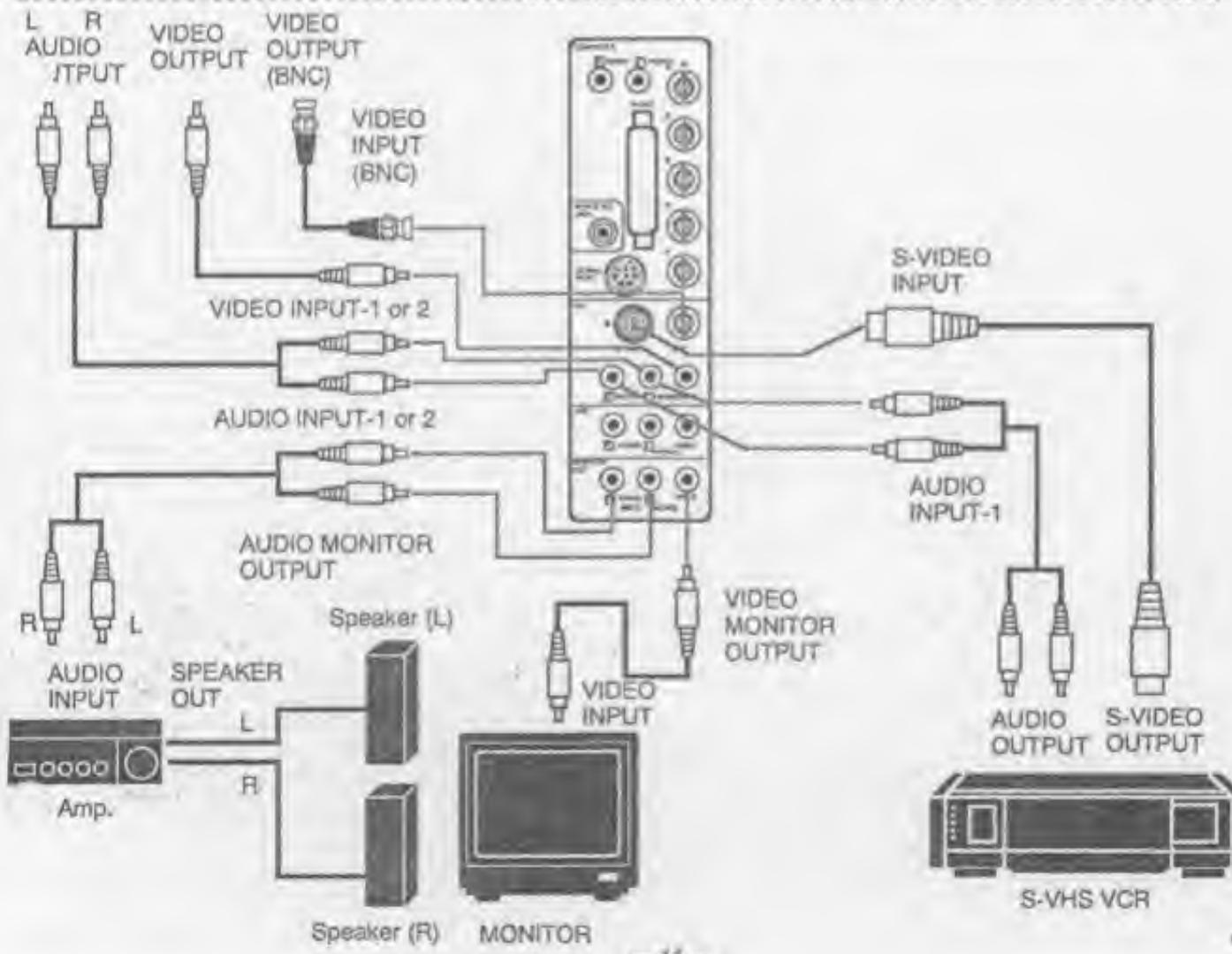


NOTE: This projector provides one line of the 600 Ω balance output only, cannot connect the external stereo audio equipment with 600 Ω balance input jack.

HOW TO CONNECT EXTERNAL AV EQUIPMENT



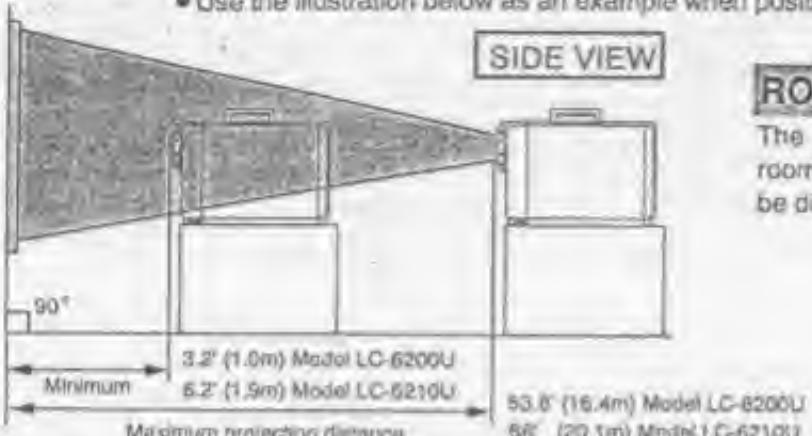
VIDEO EQUIPMENT



SETTING-UP THE PROJECTOR

POSITIONING:

- This projector is basically designed to project on a flat projection surface.
- This projector can be focused from 3.2' (1.0m) – 53.8" (16.4m) (Model LC-6200U), 6.2' (1.9m) – 66" (20.1m) (Model LC-6210U).
- Use the illustration below as an example when positioning the projector to the screen.

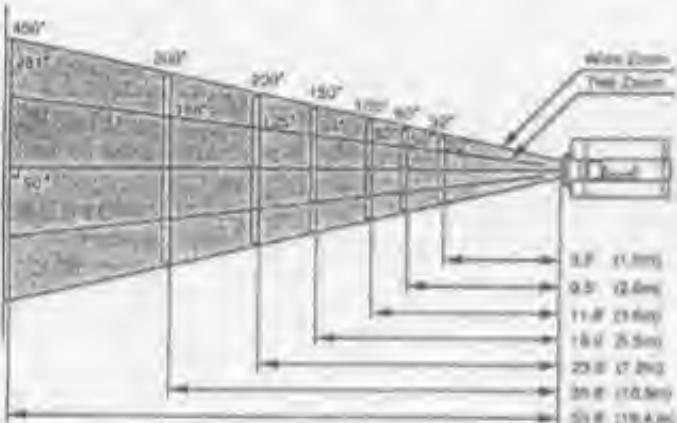


ROOM LIGHT

The projector should ideally be placed in a room with very limited light. Picture quality will be directly affected by lighting conditions.

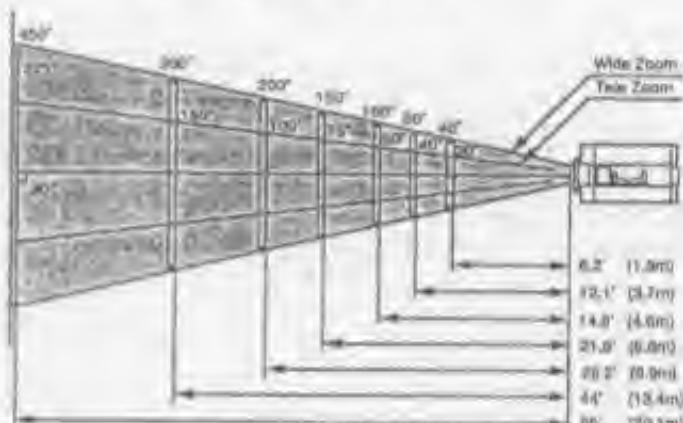
TOP VIEW

Model LC-6200U



DIAGONAL IMAGE SIZES

Model LC-6210U



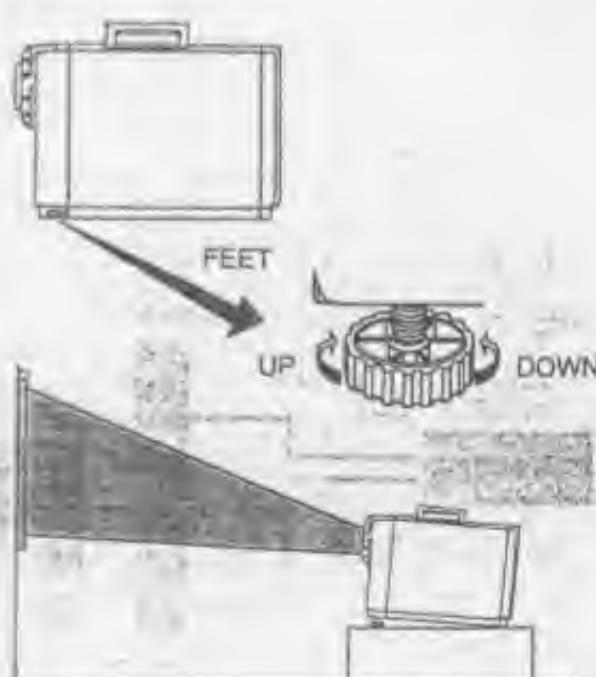
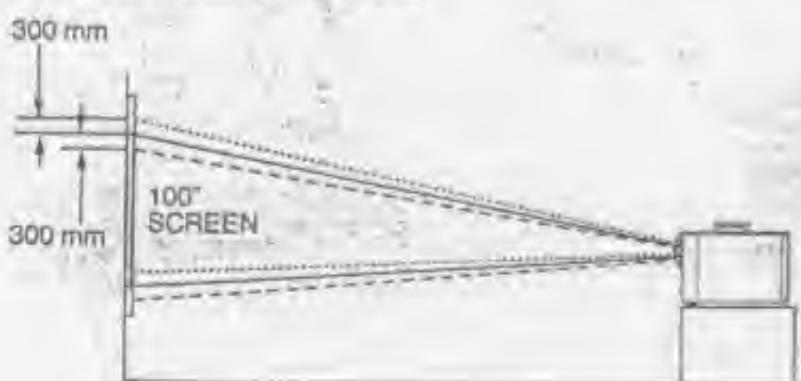
LEVELING AND ELEVATING ADJUSTMENTS

Picture adjustments can be made with the two leveling/elevating feet.

Adjustments of 5° up are possible by rotating the feet on the bottom of the projector.

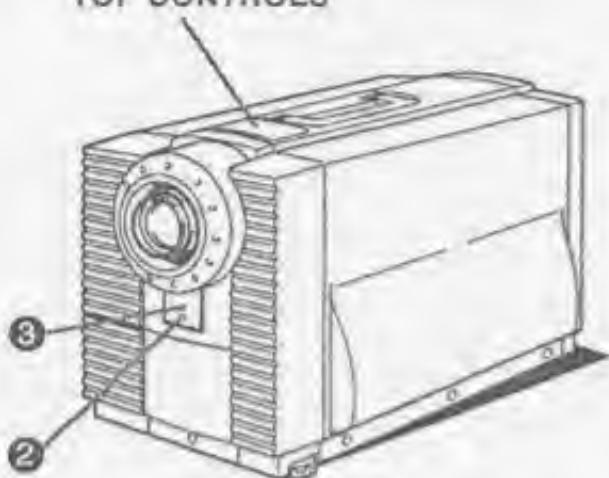
MOVE THE PROJECTED IMAGE POSITION

Adjust the projected image position (maximum 300 mm downward or upward on the 100" screen) by using lens shift function (see other function setting on page 20.)

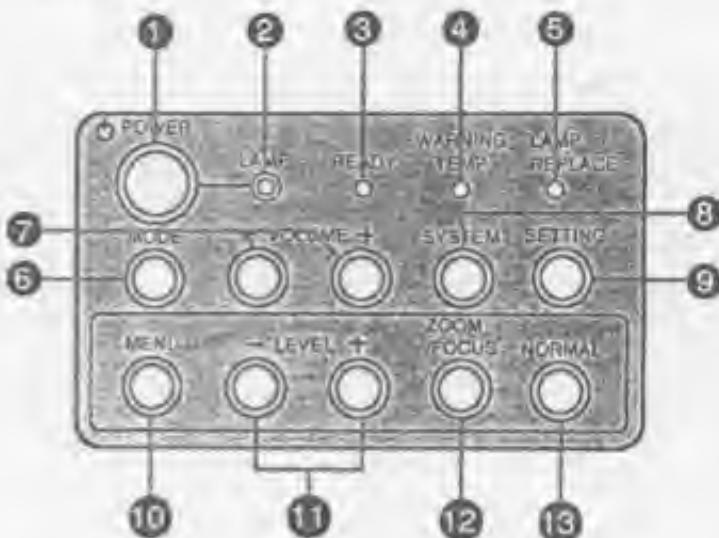


OPERATION OF CONTROLS

TOP CONTROLS



TOP CONTROLS



1 POWER (LAMP) ON/OFF BUTTON

Used to turn projection lamp on or off.

2 POWER INDICATORS

Lights dim when the projector is on.

Lights bright when the projector is stand-by position.

3 READY INDICATORS

Lights green when projector lamp is ready to be turned on.

4 TEMPERATURE WARNING INDICATOR

Flashes red when internal projector temperature is too high.

5 LAMP REPLACEMENT INDICATOR

Lights orange when projection lamp is nearing end of service life.

6 MODE BUTTON

Used to select video source. (Computer Input, Video Input-1 or Video Input-2)

7 VOLUME BUTTONS

Used to adjust volume

8 SYSTEM BUTTON

- Computer Mode

Used to select computer system.

- AV Mode

Used to select color system.

9 SETTING BUTTON

Used to select on-screen adjustment displays for lens shift, display, blue background, reverse R/L and audio out.

Press repeatedly to cycle.

10 MENU BUTTON

- Computer Mode

Used to select on-screen adjustment displays for brightness, contrast, horizontal position, vertical position, fine sync and memory. Press repeatedly to cycle.

- AV Mode

Used to select on-screen adjustment displays for color, tint, brightness, contrast and sharpness. Press repeatedly to cycle.

11 LEVEL CONTROL BUTTONS

- Computer Mode

Used to adjust zoom, focus, brightness, contrast, horizontal position, vertical position, fine sync, memory, lens shift, display, blue background, reverse R/L and audio out by pressing + or - button.

- AV Mode

Used to adjust zoom, focus, color, tint, brightness, contrast, sharpness, lens shift, display, blue background, reverse R/L and audio out by pressing + or - button.

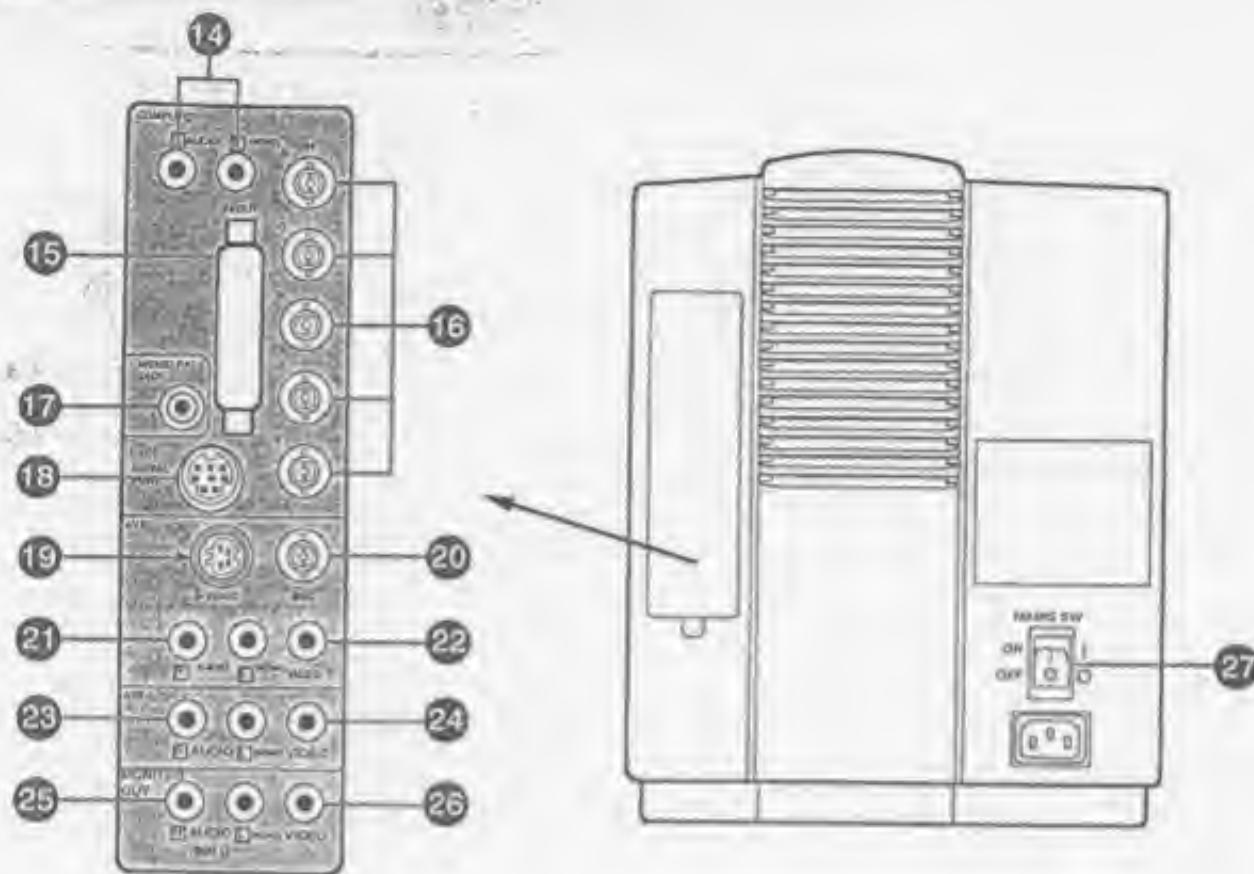
12 ZOOM/FOCUS BUTTON

Used to select power zoom lens or focus system.

13 NORMAL BUTTON

Used to reset to normal picture adjustment preset by factory.

BACK OF THE PROJECTOR



14 COMPUTER AUDIO INPUT JACKS

Used to connect a computer audio input to the projector.

15 COMPUTER INPUT/OUTPUT TERMINAL

Used to connect a computer to the projector.

16 COMPUTER INPUT JACKS (BNC) Red, Green, Blue, Horiz. Sync. and Vert. Sync.

Used to connect a computer to the projector.

17 WIRED REMOTE JACK

When using the wired remote control, connect the remote cable to this jack.

18 SERIAL PORT CONNECTOR

Used to connect a computer to the projector.

19 S-VIDEO INPUT JACK

Used to connect a S-VHS video source to the projector.

20 VIDEO INPUT-1 (BNC) JACK

Used to connect a video source to the projector.

21 AUDIO INPUT-1 JACKS

Used to connect an audio input to the projector.

22 VIDEO INPUT-1 JACK

Used to connect a video source to the projector.

23 AUDIO INPUT-2 JACKS

Used to connect an audio input to the projector.

24 VIDEO INPUT-2 JACK

Used to connect a video source to the projector.

25 AUDIO MONITOR OUTPUT JACKS

Permits audio connection to a monitor.

26 VIDEO MONITOR OUTPUT JACK

Permits video connection to a monitor.

27 MAINS ON/OFF SWITCH

Used to turn the projector on.

REMOTE CONTROL OPERATION

1 MODE BUTTON

Used to select video source. (Computer Input, Video Input-1 or Video Input-2)

2 POWER (LAMP) ON/OFF BUTTON

Used to turn projection lamp on or off.

3 ZOOM BUTTONS

Used to operate power zoom lens.

4 FOCUS BUTTONS

Used to operate power focus system.

5 SOUND MUTE BUTTON

Used to mute sound.

6 VOLUME BUTTONS

Used to adjust volume.

7 TEXT BUTTON (Computer mode only)

Used to select VGA TEXT (VGA 720 × 400) mode or VGA GRAPHIC (VGA 640 × 400) mode.

8 LEVEL CONTROL BUTTONS

● Computer Mode

Used to adjust brightness, contrast, horizontal position, vertical position, fine sync, memory, lens shift, display, blue background, reverse R/L and audio out by pressing + or - button.

● AV Mode

Used to adjust color, tint, brightness, contrast, sharpness, lens shift, display, blue background, reverse R/L and audio out by pressing + or - button.

9 SETTING BUTTON

Used to select on-screen adjustment displays for lens shift, display, blue background, reverse R/L and audio out.

10 NORMAL BUTTON

Used to reset to normal picture adjustment preset by factory.

11 MENU BUTTON

● Computer Mode

Used to select on-screen adjustment displays for brightness, contrast, horizontal position, vertical position, fine sync and memory. Press repeatedly to cycle.

● AV Mode

Used to select on-screen adjustment displays for color, tint, brightness, contrast and sharpness. Press repeatedly to cycle.

12 SYSTEM SELECT BUTTON

● Computer Mode

Used to select computer system.

● AV Mode

Used to select color system.

13 ALTER BUTTON

Used to select previous video mode.

14 FREEZE BUTTON

Use this button to hold a still picture on-screen.

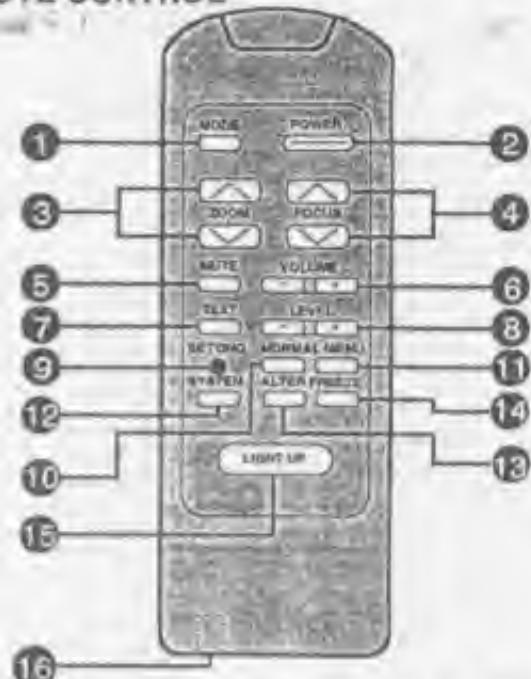
15 LIGHT UP BUTTON

Press to light the back light for function buttons on the remote control unit for 5 seconds. Press any other function button during the lighting to light for another 5 seconds.

16 WIRED REMOTE JACK

When using the wired remote control, connect the remote cable to this jack.

INFRARED/WIRED REMOTE CONTROL



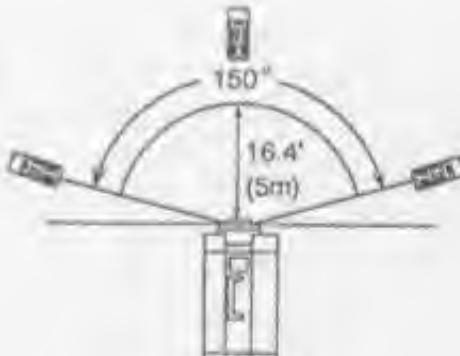
REMOTE CONTROL BATTERY INSTALLATION



The remote control unit can be used as wireless or wired remote control.

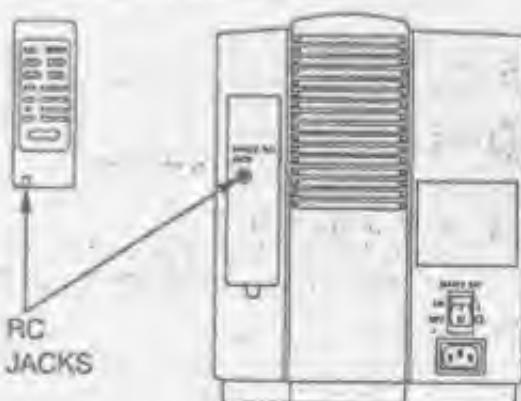
USING THE REMOTE CONTROL UNIT (wireless)

Point the remote control toward the front of the projector (Receiver window) whenever pressing the buttons. Maximum operating range for the remote control is about 16.4' (5m) and 150° from the front of the projector.



USING THE REMOTE CONTROL UNIT (wired)

Connect a remote control cable to RC jacks located on the remote control unit and the back of the projector.



To insure safe operation, please observe the following precautions:

- * Use (3) AA type batteries.
- * Change three batteries at the same time.
- * Do not use a new battery with a used battery.
- * Avoid contact with water.
- Do not drop the remote control unit.

USING THE PROJECTOR

TO TURN ON THE PROJECTOR

Connect the projector to a video source (Computer, VCR, Video Camera, Video Disc Player, etc.) using the appropriate terminals on the rear of the projector (See page 6-11).

Connect the projector's AC power cord into a wall outlet and turn the MAINS ON/OFF switch (located on the back of the projector) to ON position. The POWER indicator will light RED and the READY indicator will light GREEN.

Press the POWER (LAMP) ON/OFF button on the projector or on the remote control unit to ON. The POWER indicator will light dim and the cooling fan will operate. The wait display (EIKI LCD PROJECTOR and numeral 30) appears on the screen and the count-down starts (30-29-28-...1). The signal from the video source appears after 30 seconds.



CAUTION:

- THIS PROJECTOR USES A METAL-HALIDE ARC LAMP. IF YOU TURN ON THE LAMP, DO NOT TURN IT OFF FOR AT LEAST 5 MINUTES SO THAT ITS LIFE WILL NOT GET SHORTER.
- DO NOT UNPLUG THE PROJECTOR OR TURN THE MAINS ON/OFF SWITCH (LOCATED ON THE BACK OF THE PROJECTOR) TO OFF UNTIL THE COOLING FAN HAS STOPPED OPERATING.

NOTE 1: After you turn off the projector using the POWER (LAMP) ON/OFF button on the projector (or on the remote control unit) you must wait one minute before you can turn the projector on again.

NOTE 2: TEMPERATURE WARNING INDICATOR flashes red, the projector will automatically turn off. Wait at least 5 minutes before turning the projector on.

If the TEMPERATURE WARNING INDICATOR continues to flash, follow the procedures below:

- (1). Press POWER (LAMP) ON/OFF button to OFF.
- (2). Check the air filter for dust accumulation.
- (3). Remove dust with vacuum cleaner (See air filter care and cleaning on page 23.)
- (4). Press POWER (LAMP) ON/OFF button to ON.

If the TEMPERATURE WARNING INDICATOR still continues to flash, call your authorized distributor or dealer for service.

TO TURN OFF THE PROJECTOR

Press the POWER (LAMP) ON/OFF button on the projector or on the remote control unit. The "POWER OFF ?" appears on the screen. Press again the POWER (LAMP) ON/OFF button to OFF the projector. The POWER indicator will light bright and READY indicator will turn off. The cooling fan will operate for 1 minute after the projector is turned off. (During this "cooling down" period, the projector can not be turned on.)

After 1 minute, the READY indicator will light green again and the projector may be turned on by pressing the POWER (LAMP) ON/OFF button.



ADJUST THE PROJECTOR

VIDEO MODE SELECT

Press the MODE button (located on projector or remote control unit) to select Computer Input, Video Input-1 or Video Input-2. The "COMPUTER", "AV1" or "AV2" display will appear on the screen.



Press the ALTER button on the remote control unit to alternate quickly between the two modes. (Current mode and Previous mode)

For example, Computer IN/DUT Terminals and AV1 are connected with personal computer and VCR respectively. Firstly project computer image on the screen. Secondly press MODE button to select AV1. And then, press ALTER button to select previous mode (Computer mode).

CURRENT MODE	PREVIOUS MODE
AV1 MODE	COMPUTER MODE
COMPUTER MODE	AV2 MODE
AV2 MODE	AV1 MODE

VOLUME ADJUSTMENT

Press VOLUME buttons (located on projector or remote control unit) to adjust the volume. The screen display will appear.

Pressing (+) will increase volume and the green indicator will increase to the right on the screen.

Pressing (-) will decrease volume and the green indicator will decrease to the left on the screen.



SOUND MUTE ADJUSTMENT

Pressing SOUND MUTE button on the remote control unit will mute audio. Press SOUND MUTE button again to restore audio to its previous level.



ZOOM ADJUSTMENT (Without remote control unit)

Press ZOOM/FOCUS button until zoom display appears on the screen, and press LEVEL (+) or (-) to obtain your desired picture size. (The zoom display will appear for 5 seconds.) For a larger picture, press (+) and for a smaller picture, press (-).



ZOOM ADJUSTMENT (With remote control unit)

Press ZOOM (↑) or (↓) to obtain your desired picture size. (The zoom display will appear for 5 seconds.) For a larger picture, press (↑) and for a smaller picture, press (↓).

FOCUS ADJUSTMENT (Without remote control unit)

Press ZOOM/FOCUS button until focus display appears on the screen, and press LEVEL (+) or (-) for sharper, crisper picture. (The focus display will appear for 5 seconds.)



FOCUS ADJUSTMENT (With remote control unit)

Press FOCUS (↑) or (↓) for sharper, crisper picture. (The focus display will appear for 5 seconds.)

PICTURE ADJUSTMENT

The normal picture level is factory preset on the projector and can be obtained anytime by pressing the NORMAL button on the projector, or on the remote control unit. (The Normal display will appear for 5 seconds.)

Picture adjustments can be made by using the MENU and LEVEL buttons on the projector, or on the remote control unit. (See picture adjustment on page 21-22.)



SYSTEM SELECT

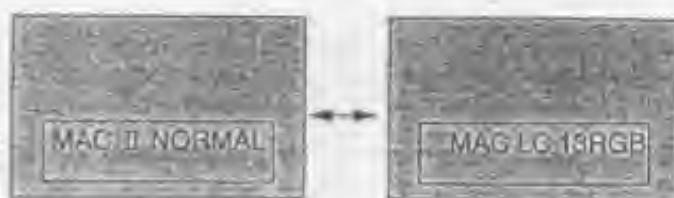
• COMPUTER MODE

When a computer is connected to the projector and both of the computer and the projector are turned On, the type of the connected computer system appears on the screen. (See "ON-SCREEN DISPLAY" on page 27.) If any of the following 5 computer systems is connected to the projector and the projector cannot discriminate those systems, press the "SYSTEM" button to select the correct system of the connected computer.

1. "MAC II NORMAL" and "MAC LC 13RGB"
2. "CGA TEXT" and "CGA GRAPHIC"
3. "APPLE II e" and "FMT 320* 200"
4. "VGA 640* 400" and "VGA 720* 400"
5. "VGA 640* 480" and "GENOA"

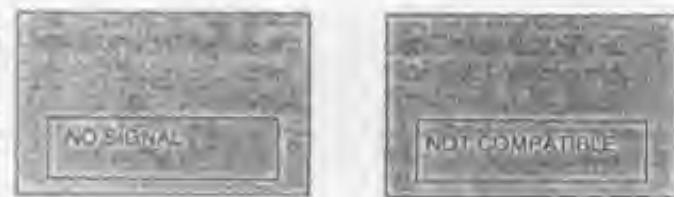
For example; The display of "MAC II NORMAL" will appear on-screen when the signal comes from Mac II normal, Super Mac and/or Raster Ops.

In case of connecting Mac LC 13" RGB monitor, press SYSTEM button (located on projector or remote control unit) to select the display of "MAC LC 13RGB".



NOTE:

1. If no input signal from the computer, the "NO SIGNAL" display appears on the screen.
2. If the projector cannot discriminate the input signal from the computer, the "NOT COMPATIBLE" display appears on the screen.



• AV MODE

Press the SYSTEM button (located on projector or remote control unit) to select AUTO, PAL, SECAM, NTSC4.43 or NTSC.

Each time the SYSTEM button is pressed, the color system changes as follows:

When the color system is set to "AUTO" position, this projector can receive color programs from one of the 4 systems (PAL, SECAM, NTSC4.43 or NTSC), automatically.

If the picture quality is poor, make sure the proper color system is selected to match the video source.

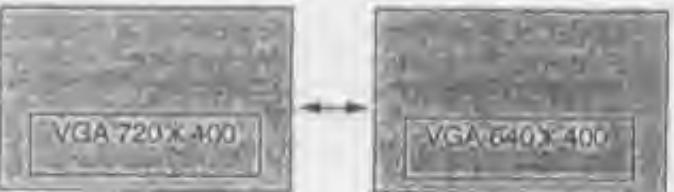


TEXT SELECT

(VGA 720* 400 and VGA 640* 400 used only)

Press the TEXT button on the remote control unit to select "VGA 720* 400"-TEXT- or "VGA 640* 400"-GRAPHIC-.

NOTE: "720* 400" TEXT mode is projected to be compressed as "640* 400".



FREEZE FUNCTION

Press the FREEZE button on the remote control unit, and then, the still picture will remain on-screen. This function is cancelled when the FREEZE button is pressed again or any other function button is pressed.

NOTE: Your computer is not affected by this function, and will continue to run.

OTHER FUNCTION SETTING

This projector has other function settings; lens shift, display, blue background, reverse R/L and audio out. These setting by using SETTING and LEVEL buttons on the projector or remote control unit.

Press SETTING button to select the function.

Each time the SETTING button is pressed, the control function changes as follows:



- 2. Adjust the lens shift, display, blue background, reverse R/L and audio out by pressing LEVEL (- and +) buttons.
- 3. The ON-SCREEN display will disappear automatically in 5 seconds.

LENS SHIFT

Press SETTING button (located on the projector or remote control unit) to select the lens shift function. Then press LEVEL buttons (located on the projector or remote control unit) to adjust the lens position.

Pressing (+) will shift up the lens.

Pressing (-) will shift down the lens.

The projected image position can be adjusted (maximum 300 mm, downward or upward on the 100" screen) by using this function.

DISPLAY

When this function is "ON" position, the projector to see the on-screen display of all setting and adjustment will be appeared.

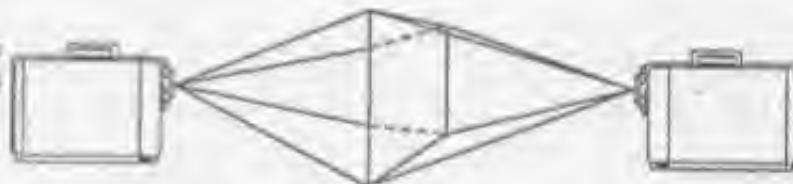
When this function is "OFF" position, the projector to see the on-screen display of any setting and adjustment (related of Picture Adjustment and Other Function Setting) will be appeared.

BLUE BACK

When this function is in the "ON" position, the projector will project the blue image without video noise on the screen when the video source is unplugged or turned off.

PICTURE SCAN

When this function is in the "ON" position, versatile left/right picture reverse capability lets you project onto a rear projection screen.



AUDIO OUT

Press SETTING button (located on the projector or remote control unit) to select the audio out function. Then press LEVEL buttons (located on the projector or remote control unit) to select the "NORMAL" or "600 Ω".

Pressing (+) to select "NORMAL" position.

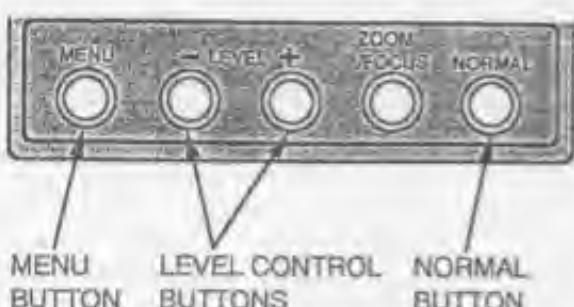
Pressing (-) to select "600 Ω" position.

The selected position ("NORMAL" or "600 Ω") is depending upon the audio equipment. (See "AUDIO MONITOR OUTPUT JACKS" section on page 10).

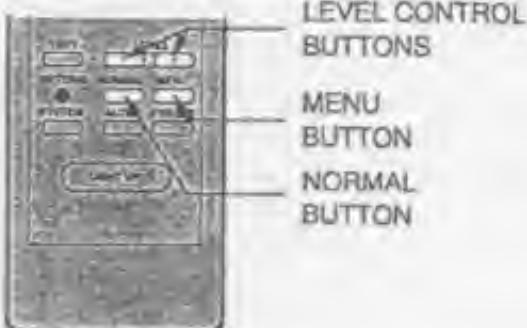
NOTE: This function have been preset at the factory to the "NORMAL" position.

PICTURE ADJUSTMENTS

TOP CONTROLS



REMOTE CONTROL UNIT



(A) COMPUTER MODE

Picture adjustments have been preset at the factory to our quality standards. The picture adjustments can be made by the MENU and LEVEL buttons on the projector or on the remote control unit.

1. Press the MENU button to select the picture adjustments function.

Each time the MENU button is pressed, the control function changes as follows:



2. Adjust the brightness, contrast, H. position, V. position or fine sync by pressing the LEVEL (+ and -) buttons.
3. The ON-SCREEN display will disappear automatically in 5 seconds.

<ul style="list-style-type: none"> • Press the LEVEL CONTROL buttons to make adjustments. 	
Refer to the control chart below.	
BRIGHTNESS	DARKER ← → BRIGHTER
CONTRAST	SOFTER ← → SHARPER
H. POSITION	LEFT ← → RIGHT
V. POSITION	DOWNWARD ← → UPWARD
FINE SYNC	Press the LEVEL CONTROL buttons (- or +) as necessary to eliminate flicker from the display.

NOTE: SVGA image can be projected as compressed mode. The flicker on this compressed SVGA image cannot be eliminated even though FINE SYNC adjustment is made.

4. Then press the MENU button to select the MEMORY menu. Press the LEVEL + button to save the picture adjustment levels in memory.

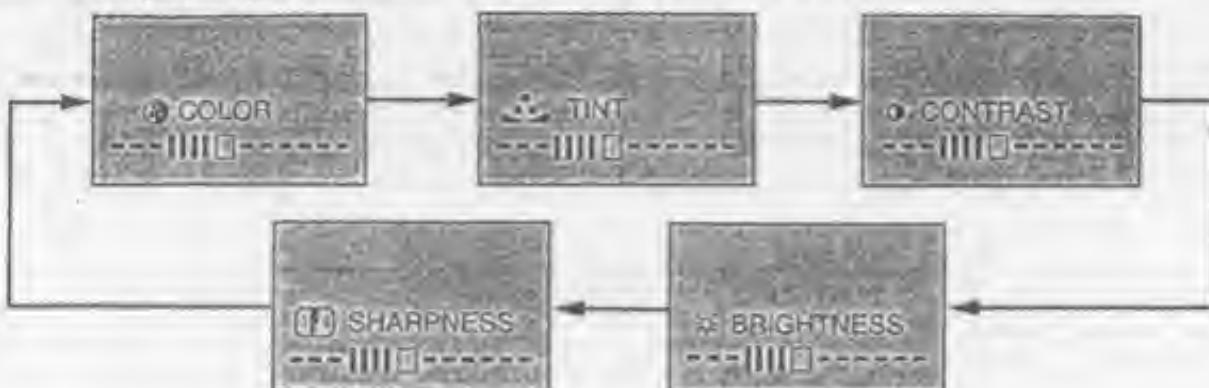
NOTE: The projector is equipped with a built-in memory feature that can maintain the picture adjustment levels if the projector is turned off and AC power cord is disconnected. If NORMAL button is pressed, the projector will return to factory preset level.

(B) AV1 and AV2 MODE

Picture adjustments have been preset at the factory to our quality standards. The picture adjustments can be made by the MENU and LEVEL buttons on the projector or on the remote control unit.

1. Press the MENU button to select the picture adjustments function.

Each time the MENU button is pressed, the control function changes as follows:



NOTE: 1. "TINT" will be skipped during in the PAL and SECAM mode.

2. Adjust the color intensity, tint, contrast, brightness or sharpness by pressing the LEVEL (+ and -) buttons.
3. The ON-SCREEN display will disappear automatically in 5 seconds.

• Press the LEVEL CONTROL buttons to make adjustments.
Refer to the control chart below.

COLOR	DECREASES ← → INCREASES
TINT	MORE GREEN ← → MORE PURPLE
CONTRAST	SOFTER ← → SHARPER
BRIGHTNESS	DARKER ← → BRIGHTER
SHARPNESS	SOFTER ← → SHARPER

NOTE: The projector is equipped with a built-in memory feature that can maintain the picture adjustment levels set on AV1 and AV2 respectively even if the projector is turned off and AC power cord is disconnected. If the NORMAL button is pressed, the projector will return to factory preset level.

AIR FILTER CARE AND CLEANING

The removable air filter prevents dust from accumulating on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat built up and reduce the life of the projector.

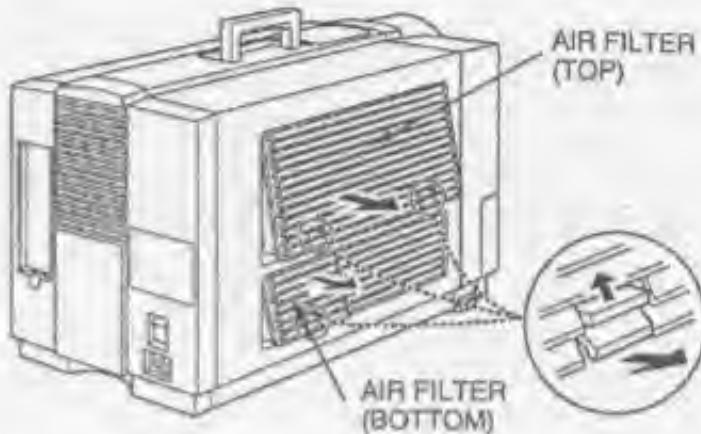
AIR FILTER (TOP)

When the air filter is blackened, it is time to change new air filter. Request service from an authorized dealer or service station.

Be sure to face the air filter in the correct direction when installing inside of the filter cover. Attach the air filter with the arrow on the "AIR FLOW" label facing towards the inside of the projector.

To change the air filter, follow the procedures below:

1. Turn the POWER (LAMP) ON/OFF button OFF.
2. Remove the air filter cover from the side of the projector.
3. Remove the air filter from the filter cover.
4. Replace the air filter. Make sure that air filter cover is fully inserted.



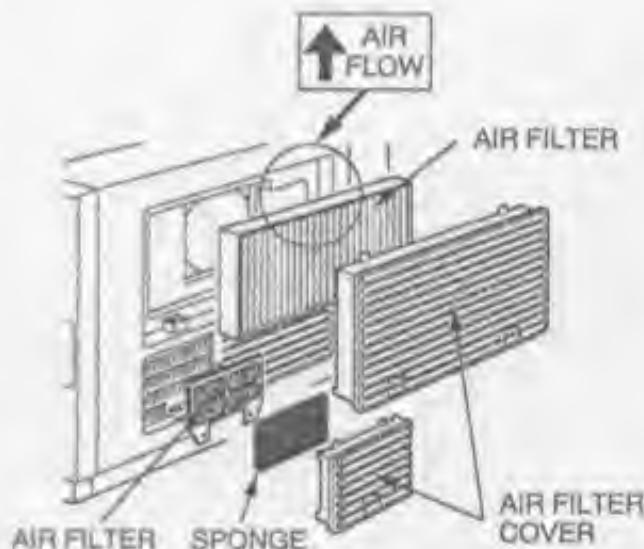
AIR FILTER (BOTTOM)

To clean the air filter, follow the cleaning procedures below:

1. Turn the POWER (LAMP) ON/OFF button OFF.
2. Remove the air filter cover from the side of the projector.
3. Remove the air filter and sponge from the filter cover.
4. Clean the air filter and sponge with a vacuum cleaner.
5. Replace the air filter and sponge. Make sure that air filter cover is fully inserted.



Do not clean with water. Doing so may damage the air filter.
Do not operate the projector with air filter removed.



RECOMMENDATION

TO ENJOY PICTURE IMAGE, USE THE PROJECTOR IN THE CLEAN ENVIRONMENT. USAGE IN THE CLEAN ENVIRONMENT IS RECOMMENDED.

When used under the dusty or smoky conditions, dust may accumulate on the liquid crystal panel and lens inside it, and may resultantly be projected on the screen together with the picture.

When the above symptoms are noticed contact the place where your authorized dealer or service station for the cleaning.

LAMP REPLACEMENT & TEMPERATURE WARNING INDICATORS

LAMP REPLACEMENT INDICATOR

When the lamp nears the end of its service life, the picture quality and color quality will deteriorate and the lamp replacement indicator will light orange.



DO NOT ATTEMPT TO REMOVE OR CHANGE THE PROJECTION LAMP. THE LAMP CAN ONLY BE CHANGED BY QUALIFIED SERVICE PERSONNEL.

TEMPERATURE WARNING INDICATOR

The TEMPERATURE WARNING INDICATOR flashes red when the internal temperature of the projector exceeds the normal temperature.

Possible causes for the temperature warning may be:

1. Ventilation slots at the side of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
2. Air filter is clogged with dust particles. Remove dust from the air filter by following instructions in the Air Filter Care and Cleaning section above.

If the TEMPERATURE WARNING INDICATOR still continues to flash after checking (1) and (2), call your authorized dealer or service station.

HELPFUL HINTS- Problems and Solutions

Check the following chart before requesting service.

Problem:	Try these Solutions:
No power	<ul style="list-style-type: none">• Plug the projector into an AC outlet.• Turn the MAINS ON/OFF switch to ON.• Press the POWER (LAMP) ON/OFF button to ON.• Check the READY INDICATOR light ON.• One minute has not passed after the projector turned OFF. NOTE: After pressing the POWER (LAMP) ON/OFF button to OFF, the projector functions as follows.<ol style="list-style-type: none">1. The POWER and READY indicator will turn off.2. The cooling fan will operate for 1 minute after the projector is turned off. (During this "cooling down period, the projector can not be turned on.)3. After 1 minute, the READY Indicator will light green again and the projector may be turned on by pressing the POWER (LAMP)ON/OFF button.
No sound from built-in speaker	<ul style="list-style-type: none">• Press the VOLUME (▲) and (▼) to (▲).• Check audio cable connection from audio input source.
No color	<ul style="list-style-type: none">• Check color system.
Picture is reversed	<ul style="list-style-type: none">• Check REVERSE R/L Feature.
Picture blurred or color faded	<ul style="list-style-type: none">• Check the projection distance.• Adjust the FOCUS control. <p>NOTE: Moving the projector from a cool temperature location to a warm temperature location may result in moisture condensation on the lens. In such an event, leave the projector OFF and wait until condensation disappears.</p>

TECHNICAL SPECIFICATIONS

SPECIFICATIONS

Projector Type	LC Data-Grade Projector
Dimensions (W × H × D)	13.3" (337.5 mm) × 15.5" (394 mm) × 22" (594 mm)
Net Weight	53.9 lbs (23.5 kg)
LCD Panel System	3.1" TFT Active Matrix type (Thin Film Transistor) × 3
Number of Pixels	921,600 (307,200 × 3)
Color System	4 color system (PAL, SECAM, NTSC4.43 and NTSC)
Projection Image Size (Diagonal)	Adjustable from 20" to 450"
Contrast Ratio	100 :1
Horizontal Resolution	550 TV lines
Projection Lens (Model LC-6200U)	F3.8- 4.8, f4.57"-7.28" with Motor zoom and focus
Projection Lens (Model LC-6210U)	F4.2- 4.5, f5.31"-10.63" with Motor zoom and focus
Motorized Lens Shift	± 300 mm on 100" screen
Lens Aperture (Model LC-6200U)	2.44" (62 mm)
Lens Aperture (Model LC-6210U)	2.64" (67 mm)
Throw Distance (Model LC-6200U)	3.2' (1.0 m) - 53.8' (16.4m)
Throw Distance (Model LC-6210U)	6.2' (1.9 m) - 66' (20.1m)
Projection Lamp	Metal Halide, 400 watt
Projection Mirror	Dichroic mirror system
AV Input Jacks	RCA Type × 6 (2 Set Video, Audio R and L), BNC Type × 1 DIN 4 pin (S-Video) × 1
Computer Input/Output Jack	DB25 Terminal × 1, DIN 8 Pin (SERIAL PORT) × 1 BNC Type × 5 (Red, Green, Blue, Horiz. Sync. and Vert. Sync.)
Computer Audio Input Jack	RCA Type × 2 (R and L)
Video Monitor Output Jack	RCA Type × 1
Audio Monitor Output Jacks	RCA Type × 2 (R and L)
Built-In Speaker	INT. SP. Monaural, 3 watt RMS (T.H.D. 10%)
Image Elevation Adjustment	Up 5"
Voltage	100 - 120V, 200 - 240V AC, 50/60 Hz
Power Consumption	630 Watts, 6.5/3.0 A (Max. Ampere)
Operating Temperature	5°C - 35°C
Storage Temperature	-10°C - 60°C
Remote Control Battery	(3) AA Type
Standard Accessories	Remote Control Unit, R/C Cable 5' (1.5m), Software Kit, AC Power Supply Cord, VGA Y Cable, MAC II Y Cable, Lens Cover, VGA Video Terminator, Macintosh Video Terminator, Owner's Instruction Manual and Protective Dust Cover



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

COMPATIBLE PERSONAL COMPUTER SPECIFICATIONS

ON-SCREEN DISPLAY	COMPATIBLE COMPUTER	DOT × LINES	fH (kHz)	fV (LINE)	PCLK	
					H	V
ESVGA1	SVGA 800 × 600	800 × 600	37.97	628	—	—
ESVGA2	SVGA 800 × 600	800 × 600	36.54	628	—	—
ESVGA3	SVGA 800 × 600	800 × 600	35.25	624	+	+
APPLE IIe	APPLE IIe	560 × 192	15.70	262	—	—
FMT 320 × 200	FM-TOWNS (L)	320 × 240	15.73	262	—	—
CGA TEXT	CGA TEXT	640 × 200	15.70	262	+	+
CGA GRAPHIC	CGA GRAPHIC	640 × 200	15.70	262	+	+
HGC TEXT	HGC TEXT	720 × 350	18.14	370	+	—
HGC GRAPHIC	HGC GRAPHIC	720 × 348	18.52	370	+	—
EGA TEXT	EGA TEXT	640 × 350	21.63	366	+	—
EGA GRAPHIC	EGA GRAPHIC	640 × 350	21.85	366	+	—
MAC SE	MAC SE	512 × 342	22.25	370	+	+
FMT 640 × 400	FM-TOWNS (640 × 400)	640 × 400	24.37	440	—	—
MAC LC 12"	MAC LC (12" MONITOR)	512 × 384	24.48	407	—	—
PC98 640 × 400	PC-9801 (640 × 400)	640 × 400	24.83	440	—	—
	PC-9821 (640 × 400)	640 × 400	24.83	440	—	—
AT&T	AT&T 6300 (350 LINE)	640 × 350	25.86	432	+	+
	AT&T 6300 (400 LINE)	640 × 400	25.86	432	+	+
AX286/386	AX-286/386	640 × 480	30.27	501	+	—
VGA 640 × 400	VGA 640 × 400	640 × 400	31.47	449	—	+
VGA 720 × 400	VGA 720 × 400	720 × 400	31.47	449	—	+
VGA 640 × 350	VGA 640 × 350	640 × 350	31.47	449	+	—
VGA 640 × 480	VGA 640 × 480	640 × 480	31.47	525	—	—
	PC-9821 (640 × 480)	640 × 480	31.47	525	—	—
	FM-TOWNS (640 × 480)	640 × 480	31.47	525	—	—
	VERSA	640 × 480	31.47	525	—	—
	MBC-P100J	640 × 480	31.47	525	—	—
	J-3100VS	640 × 480	31.47	525	—	—
	T-4500C	640 × 480	31.32	525	—	—
GENOA	GENOA 6000 (60 Hz)	640 × 480	31.47	525	—	—
VGA 640 × 400 525 LINE	VGA 640 × 400 525 LINE	640 × 400	31.47	525	—	+
VGA 640 × 350 525 LINE	VGA 640 × 350 525 LINE	640 × 350	31.47	525	+	—
MAC II (NORMAL)	MAC II (NORMAL)	640 × 480	35.00	525	—	+
	MAC II (SuperMac)	640 × 480	35.00	525	—	+
	MAC II (RasterOps)	640 × 480	35.00	525	—	+
MAC LC 13"RGB	MAC LC (13"RGB-MO)	640 × 480	34.97	525	—	—
VESA	VESA VS901001	640 × 480	37.86	520	—	—
GENOA	GENOA 6000 (70 Hz)	640 × 480	37.90	509	—	+

NOTE: 1. SVGA image can be projected as compressed mode.

2. Specifications are subject to change without notice.

EIKI

Audio Visual/Video Products

EIKI INTERNATIONAL, INC.

26794 Vista Terrace Drive, Lake Forest, CA. 92630-8113
TEL (714) 457-0200 FAX (714) 457-7878

IN CANADA, EIKI CANADA
355 Cranston Crescent P.O. Box 156
Midland Ontario L4R 4K8 Canada
TEL (705) 527-4084 FAX (705) 527-4087